RAW SEQUENCE LISTING
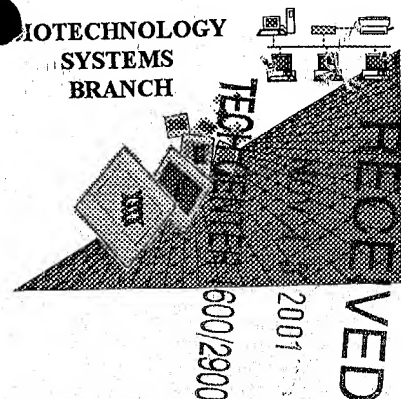# ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

J #6

Application Serial Number: 09/540,209

Art Unit / Team No. : 01PE

Date Processed by STIC: 6/14/2000

THE ATTACHED PRINTOUT EXPLAINS THE **ERRORS DETECTED.**

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,

2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

MARK SPENCER 703-308-4212

RAW SEQUENCE LISTING   DATE: 06/21/2000
PATENT APPLICATION: US/09/540,209   TIME: 11:58:47

Input Set : N:\jumbos\540209.txt
Output Set: N:\CRF3\06212000\I540209.raw

```
       4 <110> APPLICANT: Keith G. Weinstock et al.
       6 <120> TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ENTEROBACTER
       7         CLOACAE FOR DIAGNOSTICS AND THERAPEUTICS
       9 <130> FILE REFERENCE: 107196.135
C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/540,209
C--> 14 <141> CURRENT FILING DATE: 2000-04-04
      14 <160> NUMBER OF SEQ ID NOS: 11324


ERRORED SEQUENCES


  128258 <210> SEQ ID NO: 5664
  128259 <211> LENGTH: (77) 76 shown
  128260 <212> TYPE: PRT
  128261 <213> ORGANISM: Enterobacter cloacae
  128263 <400> SEQUENCE: 5664
  128264 Ser Arg Thr Arg Gln Glu Arg Lys Ser Lys Thr Asp Arg Lys Lys Arg
  128265 1               5                  10                 15
  128266 Asn Arg Lys Glu Gln Gly Ser Lys Thr Pro Gln Glu Glu Asn Pro Asn
  128267             20                 25                 30
  128268 Lys Thr Lys Ala Asn Arg Arg Asp Ser Ser Gln Asn Thr Ser Arg Asp
  128269         35              40                 45
  128270 Thr Lys Thr Thr Glu Ala Thr Pro Ile Gln Lys Asp Gly Asp Asn Ile
  128271       50                 55                 60
  128272 Ser Thr Lys Lys Thr Asn Arg Asp Lys Asn Arg Thr
E--> 128273 65               70                     75
  128304 <210> SEQ ID NO: 5666
  128305 <211> LENGTH: (89) 88
  128306 <212> TYPE: PRT
  128307 <213> ORGANISM: Enterobacter cloacae
  128309 <400> SEQUENCE: 5666
  128310 Ser Ser Gly Cys Arg Gln Glu Asn Arg Leu Ser Val Gly Asn Ser Ile
  128311 1               5                  10                 15
  128312 Gly Gln Asp Arg Arg Phe Leu Phe Lys Tyr Met Pro Glu Leu Glu Ser
  128313             20                 25                 30
  128314 Tyr Phe His Tyr Arg Tyr Leu Asp Val Ser Thr Leu Lys Glu Leu Ala
  128315         35              40                 45
  128316 Arg Arg Trp Lys Pro Glu Ile Phe Asp Gly Phe Thr Lys Gln Gly Thr
  128317       50                 55                 60
  128318 His Gln Ala Met Asp Asp Ile Arg Glu Ser Val Ala Glu Leu Ala Tyr
  128319 65               70                 75                 80
  128320 Tyr Arg Glu Asn Phe Ile Lys Leu
E--> 128321             85
  128323 <210> SEQ ID NO: 5667
  128324 <211> LENGTH: (131) 130 (next page)
  128325 <212> TYPE: PRT
  128326 <213> ORGANISM: Enterobacter cloacae
```

```
128328 <400> SEQUENCE: 5667
128329 Pro Ala Thr Ala Gly Tyr Ala Arg Arg Val Glu Asn Asn Met Ser Ala
128330 1              5                  10                 15
128331 Asp Glu Asn Asn Leu Ile Trp Ile Asp Leu Glu Met Thr Gly Leu Asp
128332             20                 25                 30
128333 Pro Glu Arg Asp Arg Ile Ile Glu Ile Ala Thr Leu Val Thr Asp Ala
128334         35                 40                 45
128335 Asn Leu Asn Ile Leu Ala Glu Gly Pro Thr Ile Ala Val His Gln Ser
128336     50                 55                 60
128337 Asp Asp Gln Leu Ala Leu Met Asp Glu Trp Asn Val Arg Thr His Thr
128338 65                 70                 75                 80
128339 Gly Ser Gly Leu Val Glu Arg Val Lys Ala Ser Thr Leu Gly Asp Arg
128340             85                 90                 95
128341 Glu Ala Glu Leu Ala Thr Leu Glu Phe Leu Lys Gln Trp Val Pro Ala
128342             100                105                110
128343 Gly Lys Ser Pro Ile Cys Gly Gln Gln His Trp Ser Gly Ser Ser Phe
128344         115                120                125
128345 Pro Val
E--> 128346     130
128348 <210> SEQ ID NO: 5668
128349 <211> LENGTH: 225 224
128350 <212> TYPE: PRT
128351 <213> ORGANISM: Enterobacter cloacae
128353 <400> SEQUENCE: 5668
128354 Pro Leu Pro Leu Ser Trp Gln Ser Val Val Lys Thr Ser Ala Thr Phe
128355 1              5                  10                 15
128356 Phe Thr Asn Ile Thr Leu Gly Lys Leu Ser Leu Leu Phe Leu Ala Leu
128357             20                 25                 30
128358 Gly Val Ala Tyr Ala Ala Ile Arg Arg Thr Leu Leu Ile Val Tyr Pro
128359         35                 40                 45
128360 Pro Ile Leu Ser Asp Gly Leu Phe Asn Phe Val Val Met Gln Thr Leu
128361     50                 55                 60
128362 Phe Tyr Ile Pro Phe Phe Leu Ile Gly Ala Leu Ala Phe Ile His Pro
128363 65                 70                 75                 80
128364 Arg Leu Lys Ala Leu Phe Thr Thr Pro Ser Pro Trp Cys Ala Val Gly
128365             85                 90                 95
128366 Ala Ala Leu Ala Phe Ala Ala Tyr Leu Leu Asn Gln Arg Tyr Gly Ser
128367             100                105                110
128368 Gly Asp Ala Trp Met Tyr Glu Thr Glu Ser Val Ile Thr Met Leu Met
128369         115                120                125
128370 Gly Leu Trp Met Val Asn Val Val Phe Ala Leu Gly His Arg Leu Leu
128371     130                135                140
128372 Asn Phe Lys Ser Ser Arg Val Thr Tyr Phe Val Asn Ala Ser Leu Phe
128373 145                150                155                160
128374 Ile Tyr Leu Val His His Pro Leu Thr Leu Phe Phe Gly Ala Tyr Ile
128375             165                170                175
128376 Thr Pro His Ile Ala Ser Asn Ala Leu Gly Phe Phe Thr Gly Leu Val
128377         180                185                190
128378 Phe Val Val Gly Ile Ala Ile Val Leu Tyr Glu Ile His Leu Arg Ile
```

RAW SEQUENCE LISTING   DATE: 06/21/2000
PATENT APPLICATION: US/09/540,209   TIME: 11:59:03

           Input Set : N:\jumbos\540209.txt
           Output Set: N:\CRF3\06212000\I540209.raw

```
128379          195              200              205
128380 Pro Leu Leu Arg Phe Leu Phe Ser Gly Lys Pro Gln Val Lys Ala Gly
128381      210              215              220
E--> 128383 225
128420 <210> SEQ ID NO: 5670
128421 <211> LENGTH: 308  307
128422 <212> TYPE: PRT
128423 <213> ORGANISM: Enterobacter cloacae
128425 <400> SEQUENCE: 5670
128426 Ser Pro Cys Ile Ile Ala Thr Leu Phe Ala Pro Glu Pro Ser Asp Val
128427 1               5               10               15
128428 Ile Pro Phe Pro Arg Ser Leu Glu Gln Ala Val Ala Ala Pro Phe Arg
128429          20              25              30
128430 Asp Phe Phe Gly Arg Asn Asn Ala Trp Leu Ile Leu Leu Ile Val
128431          35              40              45
128432 Leu Tyr Lys Leu Gly Asp Ala Phe Ala Met Ser Leu Thr Thr Thr Phe
128433      50              55              60
128434 Leu Ile Arg Gly Val Gly Phe Asp Ala Gly Glu Val Gly Val Val Asn
128435 65              70              75              80
128436 Lys Thr Leu Gly Leu Phe Ala Thr Ile Val Gly Ala Leu Tyr Gly Gly
128437              85              90              95
128438 Val Leu Met Gln Arg Leu Ser Leu Phe Arg Ala Leu Leu Ile Phe Gly
128439          100              105              110
128440 Ile Leu Gln Gly Ala Ser Asn Ala Gly Tyr Trp Leu Leu Ser Ile Thr
128441      115              120              125
128442 Asp Lys His Met Ile Ser Met Ala Thr Ala Val Phe Phe Glu Asn Leu
128443      130              135              140
128444 Cys Gly Gly Met Gly Thr Ala Ala Phe Val Ala Leu Leu Met Thr Leu
128445 145              150              155              160
128446 Cys Asn Lys Ser Phe Ser Ala Thr Gln Phe Ala Leu Leu Ser Ala Leu
128447              165              170              175
128448 Ser Ala Val Gly Arg Val Tyr Val Gly Pro Val Ala Gly Trp Phe Val
128449          180              185              190
128450 Glu Ala His Gly Trp Pro Thr Phe Tyr Leu Phe Ser Val Val Ala Ala
128451          195              200              205
128452 Val Pro Gly Ile Leu Leu Leu Leu Val Cys Arg Gln Thr Leu Glu Tyr
128453      210              215              220
128454 Thr Gln Arg Thr Glu His Phe Met Pro Arg Thr Glu Tyr Gln Ala Ala
128455 225              230              235              240
128456 Tyr Arg Phe Ala Leu Arg Leu Leu Met Ala Gly Cys Leu Ala Leu Val
128457              245              250              255
128458 Val Trp Leu Ala Val Leu Ile Ile Asn Ala Thr Thr Thr Leu Ser Leu
128459              260              265              270
128460 Pro Phe Glu Thr Gln Leu Leu Asp Ala Gly Val Phe Leu Ala Ile Val
128461      275              280              285
128462 Gly Ile Leu Thr Gly Gly Met Leu Asp Phe Met Ser Leu Arg Lys Thr
128463      290              295              300
128464 Gln Met Thr
E--> 128465 305
```

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RAW SEQUENCE LISTING              DATE: 06/21/2000
PATENT APPLICATION:  US/09/540,209   TIME: 11:59:03

       Input Set : N:\jumbos\540209.txt
       Output Set: N:\CRF3\06212000\I540209.raw

128467 <210> SEQ ID NO: 5671
128468 <211> LENGTH: (335)   334
128469 <212> TYPE: PRT
128470 <213> ORGANISM: Enterobacter cloacae
128472 <220> FEATURE:
128473 <221> NAME/KEY: UNSURE
128474 <222> LOCATION: (333)
128476 <400> SEQUENCE: 5671
128477 Met Ala Asn Tyr Thr Val Asp Glu Phe Ile Ile Gln Leu Gly Phe Asn
128478 1               5                   10                  15
128479 Glu Thr Val Ser Lys Asn Leu Gln Lys Leu Glu Ser Arg Thr Leu Lys
128480             20                  25                  30
128481 Val Ala Glu Arg Ile Glu Lys Asn Leu Asn Arg Ala Phe Thr Pro Lys
128482         35                  40                  45
128483 Gly Asp Phe Gly Arg Val Ile Ser Ser Ala Asn Asn Ala Ser Lys Gln
128484     50                  55                  60
128485 Ile Asn Arg Ala Phe Ser Lys Ser Met Asn Phe Asp Glu Ala Gly Lys
128486 65                  70                  75                  80
128487 Ser Ser Val Lys Ser Val Glu Asn Ala Ala Lys Ala Ser Ala Lys Arg
128488             85                  90                  95
128489 Ile Lys Asp Met Tyr Gln Asp Ala Tyr Gly Ala Lys Gly Lys Gly Arg
128490             100                 105                 110
128491 Ser Asn Pro Pro Ala Ala Gly Lys Pro Gln Gly Arg Gly Ser Asp Leu
128492         115                 120                 125
128493 Thr Ala Ala Asn Ser Ile Arg Ser Leu Ala Asn Thr Gln Phe Tyr Ser
128494     130                 135                 140
128495 Asn Leu Thr Arg Arg Leu Glu Gly Met Gly Ser Thr Gly Gln Ala Arg
128496 145                 150                 155                 160
128497 Ala Met Lys Leu Arg Gln Gln Val His Gly Leu Arg Asp Asp Ala Leu
128498             165                 170                 175
128499 Ala Asn Pro Ser Ala Ser Leu Asn Gln Phe Arg Leu Ala Leu Arg Ala
128500             180                 185                 190
128501 Ala Thr Asp Ser Ala Ser Lys Trp Ala Ser Gln Asn Arg Lys Gln Val
128502         195                 200                 205
128503 Ser Asn Ala Glu Gly Leu Ser Ser Ser Phe Gly Arg Leu Val Ser Val
128504     210                 215                 220
128505 Ser Ala Ala Leu Tyr Gly Thr Phe Glu Ala Val Arg Lys Val Val Glu
128506 225                 230                 235                 240
128507 Thr Gly Val Ala Arg Glu Gly Val Asn Leu Ser Ala Glu Ala Val Phe
128508             245                 250                 255
128509 Lys Gly Gln Ser Lys Asn Ala Lys Thr Phe Ala Ala Gln Phe Ser Asp
128510             260                 265                 270
128511 Gln Ile Gly Gln Gly Val Thr Glu Thr Leu Lys Gln Tyr Thr Gly Phe
128512         275                 280                 285
128513 Ala Ala Gly Ala Gln Asn Ser Leu Gly Tyr Gln Gly Thr Gln Asp Phe
128514     290                 295                 300
128515 Tyr Lys Asn Ala Ala Val Phe Gly Arg Ile Arg Gly Leu Asp Ala Glu
128516 305                 310                 315                 320
128517 Gln Arg Thr Gly Ile Met Ile Phe Thr Ser Arg Ala Xaa Ser
```

W-OK

E--> 128518   325   330   335
     128671 <210> SEQ ID NO: 5675
     128672 <211> LENGTH: 173 /72
     128673 <212> TYPE: PRT
     128674 <213> ORGANISM: Enterobacter cloacae
     128676 <400> SEQUENCE: 5675
     128677 Val Leu Glu Val Lys Thr Ala Gln Met Gly His Glu Ser Thr Arg Phe
     128678 1   5   10   15
     128679 Thr Arg Leu Val Glu Asn Leu Asn Tyr Ala Val Glu Asn Leu Val Pro
     128680   20   25   30
     128681 Thr Phe Gly Ser His Arg Ile Thr Gln Gln Ser Ala Ala Leu Gly
     128682   35   40   45
     128683 Arg Thr Ala Thr Gln Pro Ala Asn Gln Lys Ala Ile Ala Asn Leu Val
     128684   50   55   60
     128685 Tyr Gly Gly Glu Trp Gly Lys Glu His Leu Gly Asn Gln Val Ala Gly
     128686 65   70   75   80
     128687 Asp Gly Trp Lys Tyr Arg Gly Arg Gly Leu Lys Gln Ile Thr Gly Leu
     128688   85   90   95
     128689 Ser Asn Tyr Arg Ser Cys Gly Gln Ala Leu Lys Leu Asp Leu Val Thr
     128690   100   105   110
     128691 His Pro Glu Leu Leu Glu Lys Asp Glu Tyr Ala Ala Arg Ser Ala Ala
     128692   115   120   125
     128693 Trp Phe Tyr Ala Ser Arg Gly Cys Leu Leu His Ser Gly Asp Val Glu
     128694   130   135   140
     128695 Arg Val Thr Leu Leu Ile Asn Gly Gly Arg Asn Gly Leu Asp Lys Arg
     128696 145   150   155   160
     128697 Arg Ala Leu Phe Asn Leu Ala Lys Ser Val Leu Val
                         165   170
E--> 128698
     128723 <210> SEQ ID NO: 5677 /13
     128724 <211> LENGTH: 114 /13
     128725 <212> TYPE: PRT
     128726 <213> ORGANISM: Enterobacter cloacae
     128728 <400> SEQUENCE: 5677
     128729 Phe Pro Glu Leu Thr Ser Leu Pro Val Arg Ile Thr Leu Met Val Ser
     128730 1   5   10   15
     128731 Gly Ile Val Val Asn Ala Leu Ala Thr Gly Met Tyr Ile Gly Ala Gly
     128732   20   25   30
     128733 Phe Gly Ala Gly Pro Arg Asp Gly Leu Met Thr Gly Ile His Ala Arg
     128734   35   40   45
     128735 Leu Gly Trp Ser Ile Arg Ser Val Arg Thr Ala Ile Glu Val Thr Val
     128736   50   55   60
     128737 Leu Ile Val Gly Tyr Leu Leu Gly Gly Ala Phe Gly Val Gly Thr Val
     128738 65   70   75   80
     128739 Leu Tyr Ala Leu Thr Ile Gly Pro Leu Ile Gln Leu Cys Leu Pro Trp
     128740   85   90   95
     128741 Phe Arg Gln Arg Pro Arg Ile Gln Lys Ala Ala Gln Pro Glu Arg Ile
     128742   100   105   110
E--> 128743 Val
     128746 <210> SEQ ID NO: 5678

RAW SEQUENCE LISTING   DATE: 06/21/2000
PATENT APPLICATION: US/09/540,209   TIME: 11:59:03

Input Set : N:\jumbos\540209.txt
Output Set: N:\CRF3\06212000\I540209.raw

128747 <211> LENGTH: 370 369
128748 <212> TYPE: PRT
128749 <213> ORGANISM: Enterobacter cloacae
128751 <220> FEATURE:
128752 <221> NAME/KEY: UNSURE
128753 <222> LOCATION: (341)
128755 <400> SEQUENCE: 5678
128756 Ser Leu His Ile Cys Val Lys Val Gly Phe Gln Cys Lys Lys Val Ile
128757 1   5   10   15
128758 Thr Met Asn Leu Leu Glu Lys Ile Ala Leu Val Gly Gln Arg Met Lys
128759   20   25   30
128760 Ser Glu Gln Ile Ser Leu Lys Glu Ser Leu Met Ala Ser Ser Arg Val
128761   35   40   45
128762 Ser Val Ser Asp Asp Ser Val Asp Gly Val Asp Arg Leu Ile Tyr Asn
128763   50   55   60
128764 His Cys Leu Asn Lys Lys Asn Leu Ser Asp Phe Phe Gly Lys Ser Arg
128765 65   70   75   80
128766 Val Thr Phe Asn Lys Ile Leu Ser Asp Leu Glu Glu Lys Glu Leu Val
128767   85   90   95
128768 Gly Ala Pro Ile Tyr Gln Asn Lys Asn His Leu Tyr Thr Arg Trp Asp
128769   100   105   110
128770 Val Gln Lys Ile Met Asp Ala Leu Gly Tyr Pro Lys Tyr Arg Asp His
128771   115   120   125
128772 Tyr Phe Ser Arg Ala Ile Val Thr Gln Asn His Lys Gly Gly Thr Gly
128773   130   135   140
128774 Lys Ser Thr Thr Ser Val Ala Leu Ala Val Ala Ala Ala Leu Asp Leu
128775 145   150   155   160
128776 Gln Leu Asn Ala Arg Val Leu Met Ile Glu Trp Asp Pro Gln Gly Ser
128777   165   170   175
128778 Ile Gly Ser Ser Met Ile Gln Ser Val Ser Glu Asp Asp Val Phe Leu
128779   180   185   190
128780 Thr Ala Ile Asp Ala Ile Leu Gly Ile Tyr Glu Glu Asn Ser Glu Tyr
128781   195   200   205
128782 Lys Lys Tyr Leu Asp Ser Gly Phe Ser Glu Glu Glu Ile Ile Thr Asn
128783   210   215   220
128784 Met Pro Phe Ser Thr His Leu Pro Asn Leu Asp Val Ile Thr Ala Phe
128785 225   230   235   240
128786 Pro Thr Asp Ala Arg Phe Lys Asp Lys Tyr Trp Gln Cys Ser Arg Glu
128787   245   250   255
128788 Glu Arg Thr Ser Leu Leu Leu Arg Phe Lys Glu Val Ile Leu Pro Val
128789   260   265   270
128790 Leu Lys Gln Asn Tyr Asp Leu Ile Ile Ile Asp Thr Pro Pro Glu Asp
128791   275   280   285
128792 Ser Pro Leu Ile Trp Ala Ala Asp Glu Ala Ala Asp Gly Ile Leu Val
128793   290   295   300
128794 Ala Val Ser Pro Arg Glu Tyr Asp Tyr Ala Ser Thr Thr Asp Phe Met
128795 305   310   315   320
128796 Leu Thr Ile Ser Glu Arg Cys Lys Gln Ser Pro Ser Lys Gly Asp Asn
128797   325   330   335

RAW SEQUENCE LISTING   DATE: 06/21/2000
PATENT APPLICATION: US/09/540,209   TIME: 11:59:03

Input Set : N:\jumbos\540209.txt
Output Set: N:\CRF3\06212000\I540209.raw

```
     128798 Leu Lys Trp Phe Xaa Val Leu Ala Val Asn Val Asn Asp Lys Ser Pro
     128799             340                 345                 350
     128800 Tyr Glu Arg Ile Val Leu Asp Lys Leu Ile Lys Thr Val Gln Gly Pro
     128801         355                 360                 365
     128802 Phe
E--> 128803     370
     128860 <210> SEQ ID NO: 5680
     128861 <211> LENGTH: (357) 356
     128862 <212> TYPE: PRT
     128863 <213> ORGANISM: Enterobacter cloacae
     128865 <220> FEATURE:
     128866 <221> NAME/KEY: UNSURE
     128867 <222> LOCATION: (354)
     128869 <400> SEQUENCE: 5680
     128870 Thr Asp Glu Arg Ile Leu Thr Met Ser Asn Val Phe Tyr Met Pro Pro
     128871 1                   5                  10                  15
     128872 Val Thr Leu Met Gly Leu Asn Ala Ile Arg Leu Leu Gly Asp Glu Leu
     128873             20                  25                  30
     128874 Val Ser Arg Glu Leu Lys Lys Ala Leu Ile Val Thr Asp Arg Val Leu
     128875         35                  40                  45
     128876 Ala Asp Thr Gly Leu Val Asn Lys Leu Thr Asp Glu Leu Glu Ala His
     128877     50                  55                  60
     128878 Lys Ile Ser Tyr Ala Ile Phe Asp Gly Val Gln Pro Asn Pro Thr Glu
     128879 65                  70                  75                  80
     128880 Lys Asn Ile Asp Asp Gly Leu Ala Leu Leu Ala Lys Ser Asn Ala Asp
     128881             85                  90                  95
     128882 Phe Val Ile Ser Phe Gly Gly Gly Ser Ser His Asp Thr Ala Lys Gly
     128883             100                 105                 110
     128884 Ile Ala Leu Val Ala Thr Asn Gly Gly His Ile Arg Asp Tyr Ser Lys
     128885         115                 120                 125
     128886 Gly Val His Leu Ser Lys Lys Pro Gln Leu Pro Leu Val Thr Val Asn
     128887     130                 135                 140
     128888 Thr Thr Ala Gly Thr Ala Ser Glu Met Thr Val Phe Ala Ile Val Thr
     128889 145                 150                 155                 160
     128890 Asn Gln Glu Asp Glu Thr Lys Tyr Pro Val Val Asp Lys His Phe Thr
     128891             165                 170                 175
     128892 Pro Ile Ile Ala Val Asn Asp Ser Glu Leu Met Val Ala Met Pro Ala
     128893             180                 185                 190
     128894 Phe Leu Thr Ala Thr Thr Gly Met Asp Ala Leu Thr His Ala Ile Glu
     128895         195                 200                 205
     128896 Ala Tyr Val Ser Thr Ala Ala Thr Pro Val Thr Asp Ala Cys Ala Ile
     128897     210                 215                 220
     128898 Lys Ala Ile Glu Ile Ile Val Asn Asn Leu Lys Asp Val Val Asp Asp
     128899 225                 230                 235                 240
     128900 Gly Gln Asn Arg Glu Ala Arg Asp Ala Met Gln Tyr Gly Glu Tyr Leu
     128901             245                 250                 255
     128902 Ala Gly Met Ala Phe Ser Asn Ala Ser Leu Gly Tyr Val His Ser Met
     128903             260                 265                 270
     128904 Ala His Gln Leu Gly Gly Val Tyr Asn Leu Ser His Gly Leu Cys Asn
```

```
          RAW SEQUENCE LISTING                DATE: 06/21/2000
          PATENT APPLICATION:  US/09/540,209  TIME: 11:59:03

             Input Set : N:\jumbos\540209.txt
             Output Set: N:\CRF3\06212000\I540209.raw

128905           275                  280                  285
128906 Ala Ile Leu Leu Gly Glu Val Ser Arg Phe Asn Ala Lys Lys Val Pro
128907     290                  295                  300
128908 Asp Arg Phe Val Glu Ile Ala Arg Ala Met Gly Ile Asp Val Ser Thr
128909 305                  310                  315                  320
128910 Met Thr Gln Glu Gln Ala Ile Asn Ser Ala Ile Glu Ala Ile Glu Met
128911     325                  330                  335
128912 Leu Ser Gln Lys Val Gly Thr Asn Gln Arg Leu Ala Asp Arg Ala Ser
128913     340                  345                  350
```
W-OK 128914 Arg Xaa Ser Pro
E--> 128915   355
```
128917 <210> SEQ ID NO: 5681
128918 <211> LENGTH: (179) 178
128919 <212> TYPE: PRT
128920 <213> ORGANISM: Enterobacter cloacae
128922 <400> SEQUENCE: 5681
128923 Gly Pro Lys Asp Leu Phe Pro Gln Lys Cys Asp Arg Val Met Ile Asp
128924 1               5                  10                  15
128925 Ala Ser Ser Val Val Ile Gly Asp Val Arg Met Ala Asp Asp Val Ser
128926     20                  25                  30
128927 Ile Trp Pro Leu Val Ala Ile Arg Gly Asp Val Asn Tyr Val Ala Ile
128928     35                  40                  45
128929 Gly Ala Arg Thr Asn Ile Gln Asp Gly Ser Val Leu His Val Thr His
128930     50                  55                  60
128931 Lys Ser Ser Tyr Asn Pro Glu Gly Asn Pro Leu Ile Ile Gly Glu Asp
128932 65                  70                  75                  80
128933 Val Thr Val Gly His Lys Val Met Leu His Gly Cys Thr Ile Gly Asn
128934     85                  90                  95
128935 Arg Val Leu Val Gly Met Gly Ser Ile Leu Leu Asp Gly Val Ile Val
128936     100                  105                  110
128937 Glu Asp Asp Val Met Ile Gly Ala Gly Ser Leu Val Pro Gln Asn Lys
128938     115                  120                  125
128939 Arg Leu Glu Ser Gly Tyr Leu Tyr Leu Gly Ser Pro Ile Lys Gln Ile
128940     130                  135                  140
128941 Arg Pro Leu Lys Glu Ala Glu Ile Glu Gly Leu Lys Tyr Ser Ala Asn
128942 145                  150                  155                  160
128943 Asn Tyr Val Lys Trp Lys Asn Asp Tyr Leu Asp Gln Asp Asn Gln Thr
128944     165                  170                  175
```
E--> 128945 Gln Pro
```
128965 <210> SEQ ID NO: 5683
128966 <211> LENGTH: (119) 118
128967 <212> TYPE: PRT
128968 <213> ORGANISM: Enterobacter cloacae
128970 <400> SEQUENCE: 5683
128971 Trp Ser Gly His Ala Gly Gly Ala Gly Gly Ser Cys Gly Ala Thr Leu
128972 1               5                  10                  15
128973 Ala Trp Arg Val Thr Cys Cys Arg Thr Gly Asp Arg Lys Ala Glu Lys
128974     20                  25                  30
128975 Gly Thr Asp Gly Met Asn Gln Ala Ile His Phe Pro Asp Arg Glu Ile
```

RAW SEQUENCE LISTING   DATE: 06/21/2000
PATENT APPLICATION: US/09/540,209   TIME: 11:59:03

Input Set : N:\jumbos\540209.txt
Output Set: N:\CRF3\06212000\I540209.raw

```
 128976        35              40              45
 128977 Trp Asp Glu Asn Lys Gln Ala Val Cys Phe Pro Val Leu Val His Gly
 128978      50              55              60
 128979 Met Gln Leu Thr Cys Ala Ile Lys Gly Glu Thr Leu Leu Gln Arg Phe
 128980 65              70              75              80
 128981 Gly Gly Ser Asp Pro Leu Ala Val Phe Cys Glu Asn Arg Trp Asp Leu
 128982              85              90              95
 128983 Glu Glu Glu Ala Ser Asp Leu Ile Arg Val Gln Gln Glu Asp Asp Gln
 128984              100              105              110
 128985 Gly Trp Val Trp Leu Ser
E--> 128986        115
 128988 <210> SEQ ID NO: 5684
 128989 <211> LENGTH: 66  65
 128990 <212> TYPE: PRT
 128991 <213> ORGANISM: Enterobacter cloacae
 128993 <400> SEQUENCE: 5684
 128994 Ser Thr His Tyr Ala Gln Arg Lys Leu Gly Gly Arg Trp Gln Leu Arg
 128995 1              5              10              15
 128996 Gln Asn Phe Val Tyr Leu Val Ala Ile Phe Ala His Ile His Asn Leu
 128997              20              25              30
 128998 Trp Ser Val Lys Ile Leu Ser Pro Gln Pro Val Ile Tyr Ala Leu Met
 128999        35              40              45
 129000 Ala Leu Ala Leu Leu Ala Trp Arg Tyr Lys Lys Phe Arg Gln Trp Leu
 129001      50              55              60
 129002 Arg
E--> 129003 65
 129005 <210> SEQ ID NO: 5685
 129006 <211> LENGTH: 174  173
 129007 <212> TYPE: PRT
 129008 <213> ORGANISM: Enterobacter cloacae
 129010 <400> SEQUENCE: 5685
 129011 Lys Gly Asp Asn Cys Ala Leu Arg Val Tyr Val Val Phe Tyr Pro Lys
 129012 1              5              10              15
 129013 Ile Ala Gly Asp Ser Gly Ile Met Ala Asp Lys Phe Gln Ile Leu Val
 129014              20              25              30
 129015 Leu Asn Gly Pro Asn Leu Asn Met Leu Gly Thr Arg Glu Pro Glu Lys
 129016        35              40              45
 129017 Tyr Gly Thr Leu Thr Leu Ser Glu Ile Val Asn Arg Leu Ser Thr Glu
 129018      50              55              60
 129019 Ala Ala Ser Leu Asn Val Asp Leu Asp His Phe Gln Ser Asn Ala Glu
 129020 65              70              75              80
 129021 Tyr Ala Ile Ile Asp Arg Ile His Gln Ala Lys Asp Thr Val Asp Tyr
 129022              85              90              95
 129023 Ile Leu Ile Asn Pro Ala Ala Phe Thr His Thr Ser Val Ala Ile Arg
 129024              100              105              110
 129025 Asp Ala Leu Leu Ala Val Ser Ile Pro Phe Ile Glu Ile His Leu Ser
 129026        115              120              125
 129027 Asn Val His Ala Arg Glu Pro Phe Arg His His Ser Tyr Leu Ser Asp
 129028        130              135              140
```

RAW SEQUENCE LISTING   DATE: 06/21/2000
PATENT APPLICATION: US/09/540,209   TIME: 11:59:03

Input Set : N:\jumbos\540209.txt
Output Set: N:\CRF3\06212000\I540209.raw

```
  129029 Ile Ala Ala Gly Val Ile Cys Gly Leu Gly Ala Asp Gly Tyr Ser Tyr
  129030 145                 150                 155                 160
  129031 Ala Leu Gln Thr Ala Val Lys Arg Leu Ser Gln Ser His
E--> 129032             165                 170
  129034 <210> SEQ ID NO: 5686
  129035 <211> LENGTH: 197 /96
  129036 <212> TYPE: PRT
  129037 <213> ORGANISM: Enterobacter cloacae
  129039 <400> SEQUENCE: 5686
  129040 Gln Arg His Thr Pro Ala Ala Lys Asn Trp His Pro Tyr Cys Lys Thr
  129041 1               5                   10                  15
  129042 Cys Leu Thr Thr Gln Pro Leu Pro Ala Arg Tyr Phe Arg Thr Gly Gly
  129043             20                  25                  30
  129044 Asn Met Asn Leu Arg Arg Leu Lys Tyr Phe Val Lys Ile Val Asp Ile
  129045             35                  40                  45
  129046 Gly Ser Leu Thr Gln Ala Ala Glu Val Leu His Ile Ala Gln Pro Ala
  129047       50                  55                  60
  129048 Leu Ser Gln Gln Val Ala Thr Leu Glu Gly Glu Met Asp Gln Gln Leu
  129049 65                  70                  75                  80
  129050 Leu Ile Arg Thr Lys Arg Gly Val Thr Pro Thr Glu Ala Gly Lys Ile
  129051             85                  90                  95
  129052 Leu Tyr Thr His Ala Arg Thr Ile Leu Arg Gln Cys Glu Gln Ala Gln
  129053             100                 105                 110
  129054 Leu Ala Val His Asn Val Gly Gln Thr Leu Ser Gly His Val Ser Ile
  129055             115                 120                 125
  129056 Gly Leu Ala Pro Gly Thr Ala Ala Ser Ser Val Thr Met Pro Leu Leu
  129057       130                 135                 140
  129058 Gln Ala Val Arg Ala Glu Leu Pro Glu Val Leu Val Tyr Leu His Glu
  129059 145                 150                 155                 160
  129060 Asn Ser Gly Ser Val Leu Asn Asp Lys Leu Leu Asn Gly Gln Leu Asp
  129061             165                 170                 175
  129062 Met Gly Gly Ala Val Arg Ser Leu Pro Gly Cys Arg Asp His Gln Pro
  129063             180                 185                 190
  129064 Ala Ala Ala Glu
E--> 129065       195
  129067 <210> SEQ ID NO: 5687
  129068 <211> LENGTH: 80 79
  129069 <212> TYPE: PRT
  129070 <213> ORGANISM: Enterobacter cloacae
  129072 <400> SEQUENCE: 5687
  129073 Leu Ile Asp Gln Pro Val Lys Val Thr Thr Glu Pro Asp Gly Ser Arg
  129074 1               5                   10                  15
  129075 Trp Val Glu Val His Glu Pro Leu Ser Arg Asn Arg Ala Glu Phe Glu
  129076             20                  25                  30
  129077 Ser Thr Asn Lys Val Pro Leu Pro Ile Ser Ala Ala Gln Arg Thr Gln
  129078             35                  40                  45
  129079 Leu Ile Ser Glu Gly Ala Gly Ala Glu Leu Glu Arg Arg Ser Gly Met
  129080       50                  55                  60
  129081 Pro Val Lys Leu Ala Met Thr Gly Ser Ala Ser Leu Ala Gly Pro
```

```
E--> 129082 65                   70              75              80
     129084 <210> SEQ ID NO: 5688
     129085 <211> LENGTH: (114) //3
     129086 <212> TYPE: PRT
     129087 <213> ORGANISM: Enterobacter cloacae
     129089 <400> SEQUENCE: 5688
     129090 Pro Cys Arg Cys Phe Arg Arg Cys Glu Gln Ser Tyr Arg Lys Cys Trp
     129091 1               5                   10              15
     129092 Phe Ile Cys Met Arg Thr Val Val Pro Cys Ser Met Thr Asn Cys Ser
     129093             20                  25                  30
     129094 Thr Val Ser Trp Ile Trp Ala Val Leu Tyr Asp Arg Ser Pro Val Ala
     129095             35                  40                  45
     129096 Gly Ile Thr Ser Gln Pro Leu Leu Asn Glu Asp Leu Tyr Leu Val Gly
     129097         50                  55                  60
     129098 Thr Arg Asp Cys Pro Gly Gln Ser Ile Asp Leu Thr Ala Val Ala Gln
     129099 65                  70                  75                  80
     129100 Met Asn Leu Phe Leu Ala Arg Asp Tyr Ser Ala Leu Arg Leu Arg Phe
     129101             85                  90                  95
     129102 Asp Glu Thr Pro Ser Leu Arg Pro Leu Asn Ala Asn Asn Phe Leu Leu
     129103             100                 105                 110
E--> 129104 Glu
     129107 <210> SEQ ID NO: 5689
     129108 <211> LENGTH: (164) /63
     129109 <212> TYPE: PRT
     129110 <213> ORGANISM: Enterobacter cloacae
     129112 <400> SEQUENCE: 5689
     129113 Pro Val Tyr Thr Pro Leu Ala Leu Arg Asp Trp Phe Arg Ala Ala Pro
     129114 1               5                   10              15
     129115 Arg Asn Pro Leu Lys Pro Leu Pro Arg Leu Arg Leu Val Gln His Arg
     129116             20                  25                  30
     129117 Ala Asp Arg Glu Lys Ile Ser Arg Pro Ser Arg Arg Tyr Gln Glu Ala
     129118             35                  40                  45
     129119 Gly Leu Ala Asp Lys Arg Ser Lys Met Leu Thr Met Trp Val Thr Glu
     129120         50                  55                  60
     129121 Asp Glu His Arg Arg Leu Leu Glu Arg Cys Glu Gly Lys Gln Leu Ala
     129122 65                  70                  75                  80
     129123 Ala Trp Met Arg Gln Thr Cys Leu Asp Glu Lys Pro Ala Arg Ala Gly
     129124             85                  90                  95
     129125 Lys Leu Pro Ser Ile Ser Pro Ala Leu Leu Arg Gln Leu Ala Gly Met
     129126             100                 105                 110
     129127 Gly Asn Asn Leu Asn Gln Ile Ala Arg Gln Val Asn Ala Gly Gly Gly
     129128             115                 120                 125
     129129 Ser Gly His Asp Arg Val Gln Ile Val Ala Ala Leu Met Ala Ile Asp
     129130         130                 135                 140
     129131 Ala Gly Leu Glu Arg Leu Arg His Ala Val Leu Glu Lys Gly Ala Asp
     129132 145                 150                 155                 160
E--> 129133 Asp Asp Arg
     129238 <210> SEQ ID NO: 5692
     129239 <211> LENGTH: (189) /88
```

```
129240 <212> TYPE: PRT
129241 <213> ORGANISM: Enterobacter cloacae
129243 <400> SEQUENCE: 5692
129244 Thr Thr Val Leu Pro Ala Gly Leu Gly Glu Asn Asn Thr Ile Ser Gly
129245 1               5                   10                  15
129246 Leu Leu Phe Leu Trp Val Pro Thr Arg Lys Thr Asn Phe Ile His Gly
129247             20                  25                  30
129248 Glu Pro Leu Arg Gly Val Ile Thr Gln Ser Glu Asp Phe Arg Met Ala
129249         35                  40                  45
129250 Lys Lys Val Gln Ala Tyr Val Lys Leu Gln Val Ala Ala Gly Met Ala
129251     50                  55                  60
129252 Asn Pro Ser Pro Pro Val Gly Pro Ala Leu Gly Gln Gln Gly Val Asn
129253 65                  70                  75                  80
129254 Ile Met Glu Phe Cys Lys Ala Phe Asn Ala Lys Thr Glu Ser Met Glu
129255                 85                  90                  95
129256 Lys Gly Leu Pro Ile Pro Val Val Ile Thr Val Tyr Ala Asp Arg Ser
129257             100                 105                 110
129258 Phe Thr Phe Val Thr Lys Thr Pro Pro Ala Ala Val Leu Leu Lys Lys
129259             115                 120                 125
129260 Ala Ala Gly Ile Lys Ser Gly Ser Gly Lys Pro Asn Lys Asp Lys Val
129261     130                 135                 140
129262 Gly Lys Ile Ser Arg Ala Gln Leu Gln Glu Ile Ala Gln Thr Lys Ala
129263 145                 150                 155                 160
129264 Ala Asp Met Thr Gly Ser Asp Ile Glu Ala Met Thr Arg Ser Ile Glu
129265                 165                 170                 175
129266 Gly Thr Ala Arg Ser Met Gly Leu Val Val Glu Asp
```
E--> 129267   180   185
```
129269 <210> SEQ ID NO: 5693
129270 <211> LENGTH: (236) 235
129271 <212> TYPE: PRT
129272 <213> ORGANISM: Enterobacter cloacae
129274 <400> SEQUENCE: 5693
129275 Glu Met Ala Lys Leu Thr Lys Arg Met Ser Val Ile Arg Asp Lys Val
129276 1               5                   10                  15
129277 Asp Ala Thr Lys Gln Tyr Asp Ile Asn Glu Ala Ile Ala Leu Leu Lys
129278             20                  25                  30
129279 Glu Leu Ala Thr Ala Lys Phe Val Glu Ser Val Asp Val Ala Val Asn
129280         35                  40                  45
129281 Leu Gly Ile Asp Ala Arg Lys Ser Asp Gln Asn Val Arg Gly Ala Thr
129282     50                  55                  60
129283 Val Leu Pro His Gly Thr Gly Arg Ser Val Arg Val Thr Val Phe Ala
129284 65                  70                  75                  80
129285 Gln Gly Ala Asn Ala Glu Ser Ala Lys Ala Ala Gly Ala Glu Leu Val
129286                 85                  90                  95
129287 Gly Met Glu Asp Leu Ala Asp Gln Ile Lys Lys Gly Glu Met Asn Phe
129288             100                 105                 110
129289 Asp Val Val Ile Ala Ser Pro Asp Ala Met Arg Val Val Gly Gln Leu
129290             115                 120                 125
129291 Gly Gln Val Leu Gly Pro Arg Gly Leu Met Pro Asn Pro Lys Val Gly
```

```
RAW SEQUENCE LISTING                    DATE: 06/21/2000
PATENT APPLICATION:  US/09/540,209      TIME: 11:59:03

Input Set : N:\jumbos\540209.txt
Output Set: N:\CRF3\06212000\I540209.raw

129292      130               135               140
129293 Thr Val Thr Pro Asn Val Ala Glu Ala Val Lys Asn Ala Lys Ala Gly
129294 145               150               155               160
129295 Gln Val Arg Tyr Arg Asn Asp Lys Asn Gly Ile Ile His Thr Thr Ile
129296               165               170               175
129297 Gly Lys Val Asp Phe Asp Ala Asp Lys Leu Lys Glu Asn Leu Glu Ala
129298               180               185               190
129299 Leu Leu Val Ala Leu Lys Lys Ala Lys Pro Thr Gln Ala Lys Gly Val
129300           195               200               205
129301 Tyr Ile Lys Lys Val Ser Ile Ser Thr Thr Met Gly Ala Gly Val Ala
129302      210               215               220
129303 Val Asp Gln Ala Gly Leu Ser Ala Ala Ala Asn
E--> 129304 225               230               235
```

The same discrepancy even exist in Seqs: 5695-5697, 5700-01, 5703-04, 5706-5708, 5710-5714, 5716-18, 5720-24, 5726-32.

FYI

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY   DATE: 06/21/2000
PATENT APPLICATION: US/09/540,209   TIME: 11:59:46

Input Set : N:\jumbos\540209.txt
Output Set: N:\CRF3\06212000\I540209.raw

```
L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:49 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2
L:49 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:2
L:130 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:7
L:130 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:7
L:191 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:9
L:191 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:9
L:241 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:11
L:241 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:11
L:269 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:12
L:269 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:12
L:554 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:14
L:554 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:14
L:555 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:14
M:340 Repeated in SeqNo=14
L:570 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:15
L:570 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:15
L:604 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:16
L:604 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:16
L:634 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:17
L:634 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:17
L:663 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:18
L:663 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:18
L:717 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:22
L:717 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:22
L:809 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:28
L:809 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:28
L:897 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:32
L:897 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:32
L:967 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:36
L:967 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:36
L:1181 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:49
L:1181 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:49
L:1226 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:52
L:1226 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:52
L:1320 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:57
L:1320 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:57
L:1362 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:60
L:1362 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:60
L:1416 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:62
L:1416 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:62
L:1451 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:64
L:1451 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:64
L:1570 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:72
L:1570 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:72
L:1574 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:72
M:340 Repeated in SeqNo=72
```

VERIFICATION SUMMARY   DATE: 06/21/2000
PATENT APPLICATION: US/09/540,209   TIME: 11:59:46

Input Set : N:\jumbos\540209.txt
Output Set: N:\CRF3\06212000\I540209.raw

```
L:1603 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:74
L:1603 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:74
L:1654 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:75
L:1654 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:75
L:1883 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:88
L:1883 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:88
L:2094 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:100
L:2094 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:100
L:2111 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:101
L:2111 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:101
L:2159 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:102
L:2159 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:102
L:2187 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:103
L:2187 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:103
L:2188 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:103
M:340 Repeated in SeqNo=103
L:2361 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:113
L:2361 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:113
L:2555 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:122
L:2555 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:122
L:2650 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:127
L:2650 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:127
L:2668 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:127
M:340 Repeated in SeqNo=127
L:2669 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:127
L:2820 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:134
L:2820 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:134
L:2852 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:135
L:2852 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:135
L:2853 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:135
M:340 Repeated in SeqNo=135
L:3066 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:148
L:3066 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:148
L:3089 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:149
L:3089 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:149
L:3171 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:152
L:3171 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:152
L:3288 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:156
L:3288 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:156
L:3290 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:156
M:340 Repeated in SeqNo=156
L:3291 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:156
L:3292 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:156
L:3339 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:158
L:3339 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:158
L:3519 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:160
L:3519 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:160
L:3522 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:160
M:340 Repeated in SeqNo=160
```

```
VERIFICATION SUMMARY                          DATE: 06/21/2000
PATENT APPLICATION:  US/09/540,209            TIME: 11:59:46

Input Set  : N:\jumbos\540209.txt
Output Set: N:\CRF3\06212000\I540209.raw

L:3523 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:160
L:3692 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:161
M:340 Repeated in SeqNo=161
L:4207 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:189
L:4224 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:190
L:128273 M:252 E: No. of Seq. differs, <211>LENGTH:Input:77 Found:76 SEQ:5664
L:128321 M:252 E: No. of Seq. differs, <211>LENGTH:Input:89 Found:88 SEQ:5666
L:128346 M:252 E: No. of Seq. differs, <211>LENGTH:Input:131 Found:130 SEQ:5667
L:128383 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5668
L:128383 M:252 E: No. of Seq. differs, <211>LENGTH:Input:225 Found:224 SEQ:5668
L:128465 M:252 E: No. of Seq. differs, <211>LENGTH:Input:308 Found:307 SEQ:5670
L:128518 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5671
L:128518 M:252 E: No. of Seq. differs, <211>LENGTH:Input:335 Found:334 SEQ:5671
L:128698 M:252 E: No. of Seq. differs, <211>LENGTH:Input:173 Found:172 SEQ:5675
L:128743 M:252 E: No. of Seq. differs, <211>LENGTH:Input:114 Found:113 SEQ:5677
L:128803 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5678
L:128803 M:252 E: No. of Seq. differs, <211>LENGTH:Input:370 Found:369 SEQ:5678
L:128915 M:252 E: No. of Seq. differs, <211>LENGTH:Input:357 Found:356 SEQ:5680
L:128945 M:252 E: No. of Seq. differs, <211>LENGTH:Input:179 Found:178 SEQ:5681
L:128986 M:252 E: No. of Seq. differs, <211>LENGTH:Input:119 Found:118 SEQ:5683
L:129003 M:252 E: No. of Seq. differs, <211>LENGTH:Input:66 Found:65 SEQ:5684
L:129032 M:252 E: No. of Seq. differs, <211>LENGTH:Input:174 Found:173 SEQ:5685
L:129065 M:252 E: No. of Seq. differs, <211>LENGTH:Input:197 Found:196 SEQ:5686
L:129082 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5687
L:129082 M:252 E: No. of Seq. differs, <211>LENGTH:Input:80 Found:79 SEQ:5687
L:129104 M:252 E: No. of Seq. differs, <211>LENGTH:Input:114 Found:113 SEQ:5688
L:129133 M:252 E: No. of Seq. differs, <211>LENGTH:Input:164 Found:163 SEQ:5689
L:129267 M:252 E: No. of Seq. differs, <211>LENGTH:Input:189 Found:188 SEQ:5692
L:129304 M:252 E: No. of Seq. differs, <211>LENGTH:Input:236 Found:235 SEQ:5693
L:129352 M:252 E: No. of Seq. differs, <211>LENGTH:Input:128 Found:127 SEQ:5695
L:129385 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5696
L:129385 M:252 E: No. of Seq. differs, <211>LENGTH:Input:200 Found:199 SEQ:5696
L:129408 M:252 E: No. of Seq. differs, <211>LENGTH:Input:119 Found:118 SEQ:5697
L:129527 M:252 E: No. of Seq. differs, <211>LENGTH:Input:172 Found:171 SEQ:5700
L:129556 M:252 E: No. of Seq. differs, <211>LENGTH:Input:173 Found:172 SEQ:5701
L:129632 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5703
L:129632 M:252 E: No. of Seq. differs, <211>LENGTH:Input:85 Found:84 SEQ:5703
L:129667 M:252 E: No. of Seq. differs, <211>LENGTH:Input:219 Found:218 SEQ:5704
L:129705 M:252 E: No. of Seq. differs, <211>LENGTH:Input:111 Found:110 SEQ:5706
L:129742 M:252 E: No. of Seq. differs, <211>LENGTH:Input:233 Found:232 SEQ:5707
L:129769 M:252 E: No. of Seq. differs, <211>LENGTH:Input:158 Found:157 SEQ:5708
L:129815 M:252 E: No. of Seq. differs, <211>LENGTH:Input:113 Found:112 SEQ:5710
L:129852 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5711
L:129852 M:252 E: No. of Seq. differs, <211>LENGTH:Input:185 Found:184 SEQ:5711
L:129887 M:252 E: No. of Seq. differs, <211>LENGTH:Input:212 Found:211 SEQ:5712
L:129912 M:252 E: No. of Seq. differs, <211>LENGTH:Input:134 Found:133 SEQ:5713
L:129957 M:252 E: No. of Seq. differs, <211>LENGTH:Input:303 Found:302 SEQ:5714
L:130003 M:252 E: No. of Seq. differs, <211>LENGTH:Input:119 Found:118 SEQ:5716
L:130036 M:252 E: No. of Seq. differs, <211>LENGTH:Input:208 Found:207 SEQ:5717
```

VERIFICATION SUMMARY   DATE: 06/21/2000
PATENT APPLICATION: US/09/540,209   TIME: 11:59:46

Input Set : N:\jumbos\540209.txt
Output Set: N:\CRF3\06212000\I540209.raw

```
L:130077 M:252 E: No. of Seq. differs, <211>LENGTH:Input:262 Found:261 SEQ:5718
L:130129 M:252 E: No. of Seq. differs, <211>LENGTH:Input:166 Found:165 SEQ:5720
L:130146 M:252 E: No. of Seq. differs, <211>LENGTH:Input:73 Found:72 SEQ:5721
L:130189 M:252 E: No. of Seq. differs, <211>LENGTH:Input:287 Found:286 SEQ:5722
L:130222 M:252 E: No. of Seq. differs, <211>LENGTH:Input:209 Found:208 SEQ:5723
L:130247 M:252 E: No. of Seq. differs, <211>LENGTH:Input:124 Found:123 SEQ:5724
L:130307 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5726
L:130307 M:252 E: No. of Seq. differs, <211>LENGTH:Input:255 Found:254 SEQ:5726
L:130340 M:252 E: No. of Seq. differs, <211>LENGTH:Input:202 Found:201 SEQ:5727
L:130367 M:252 E: No. of Seq. differs, <211>LENGTH:Input:154 Found:153 SEQ:5728
L:130382 M:252 E: No. of Seq. differs, <211>LENGTH:Input:64 Found:63 SEQ:5729
L:130405 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5730
L:130405 M:252 E: No. of Seq. differs, <211>LENGTH:Input:120 Found:119 SEQ:5730
L:130422 M:252 E: No. of Seq. differs, <211>LENGTH:Input:72 Found:71 SEQ:5731
L:130443 M:252 E: No. of Seq. differs, <211>LENGTH:Input:104 Found:103 SEQ:5732
L:130611 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5736
L:130959 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5746
L:131118 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5751
L:131135 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5752
L:131197 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5754
L:131306 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5757
L:131695 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5766
L:131714 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5767
L:131741 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5768
L:131770 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5769
L:132237 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5780
L:132608 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5791
L:132981 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5800
L:133010 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5801
L:133945 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5824
L:134076 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5829
L:134093 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5830
L:134450 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5839
L:134546 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5841
L:134961 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5854
L:135201 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5860
L:135421 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5866
L:136052 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5879
L:136490 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5889
L:137004 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5905
L:137074 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5907
L:137099 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5908
L:137744 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5925
L:137852 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5927
L:137974 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5931
L:138037 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5932
L:138252 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5937
L:138614 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5945
L:138733 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5948
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VERIFICATION SUMMARY   DATE: 06/21/2000
PATENT APPLICATION: US/09/540,209   TIME: 11:59:46

Input Set : N:\jumbos\540209.txt
Output Set: N:\CRF3\06212000\I540209.raw

L:138789 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5950
L:139330 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5965
L:139433 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5968
L:139622 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5973
L:139724 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5977
L:139846 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5981
L:139863 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5982